

P & D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-4916

RECEIVED

2:05 pm, Jun 29, 2007

Alameda County
Environmental Health

June 26, 2007

Mr. Steven Plunkett
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**SUBJECT: GROUNDWATER MONITORING WELL INSTALLATION WORK PLAN
AMENDMENT (MWS THROUGH MW13) CERTIFICATION**
County Case # RO 285
Xtra Oil Company
3495 Castro Valley Blvd.
Castro Valley, CA

Dear Mr. Plunkett:

P&D Environmental, Inc. has prepared the following document:

- Groundwater Monitoring and Well Installation Work Plan Amendment (MWS Through MW13) dated May 3, 2007 (document 0014.W10A).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 865-9503.

Sincerely,
Xtra Oil Company



Keith Simas

0014.L138

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

May 3, 2007

Work Plan 0014.W10A

Mr. Steven Plunkett

Alameda County Department of Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

**SUBJECT: GROUNDWATER MONITORING WELL INSTALLATION WORK PLAN
AMENDMENT (MW5 THROUGH MW12)**

Xtra Oil Company

3495 Castro Valley Boulevard

Castro Valley, CA

Dear Mr. Plunkett:

P&D Environmental, Inc. (P&D) is pleased to present this amendment to the work plan for the installation of offsite groundwater monitoring wells in the vicinity of the subject site. This amendment is submitted in response to an April 4, 2007 letter from the Alameda County Department of Environmental Health (ACDEH). A Site Vicinity Map showing the proposed well locations is attached as Figure 1. A Summary of Proposed Well Depths is attached as Table 1.

All work will be performed under the direct supervision of an appropriately registered professional. This work plan is prepared in accordance with guidelines set forth in the document "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991 and California Code of Regulations Title 23 Sections 2720-2728.

Groundwater Monitoring Well Installation Oversight

Eight off-site groundwater monitoring wells, designated MW5 through MW12, will be installed at the locations shown on Figure 2. In its April 4, 2007 letter, ACDEH requested that location MW9 in the March 5, 2007 work plan proposing the well installations be eliminated as requested. In order to eliminate confusion in the future, the wells have been renumbered. In addition, as requested in the April 4, 2007 letter from ACDEH, well MW10 (previously well MW11) has been relocated. The original request from ACDEH was to place this well 25 feet west-southwest of boring P39. However, during a May 2, 2007 phone discussion between P&D and Steven Plunkett of ACDEH it was determined that relocating MW10 adjacent to boring P40 would best allow for the monitoring of the extent of impact to groundwater south-southwest of the site.

The updated rationale for the location of each of the proposed monitoring well locations is provided below.

- **MW5:** To evaluate the downgradient TPH plume interior to the southwest of the subject site in the vicinity of the source area.

- MW6: To evaluate the downgradient TPH plume interior to the southwest of the subject site at allocation approximately one half the distance from the source area to the approximate distal portion of the plume.
- MW7: To evaluate the downgradient TPH plume interior to the southwest of the subject site in the vicinity of the distal portion of the southwestern lobe of the plume (the plume is bifurcated with a southwestern and a southeastern lobe).
- MW8: To evaluate the downgradient TPH plume interior to the southeast of the subject site in the vicinity of the distal portion of the southwestern lobe of the plume (the plume is bifurcated with a southwestern and a southeastern lobe).
- MW9: To evaluate the downgradient TPH plume perimeter to the southwest of the subject site.
- MW10: To evaluate the downgradient TPH plume perimeter to the southwest of the subject site.
- MW11: To evaluate the downgradient TPH plume perimeter to the south-southwest of the subject site.
- MW12: To evaluate the downgradient TPH plume perimeter to the southeast of the subject site.

An updated summary of proposed well construction depths for the proposed wells and historic water levels encountered in boreholes located in the vicinity of each of the proposed wells is attached as Table 1. The proposed well construction depths were determined using the historic water levels encountered in boreholes located in the vicinity of each of the proposed wells.

As requested in the April 4, 2007 letter from ACDEH, soil samples will be collected from the boreholes into brass tubes at changes in lithology and at any areas of obvious contamination or where an elevated photoionization detector reading occurs. If none of these conditions are encountered, a soil sample will be collected from the capillary fringe in each boring.

SCHEDULE

The following amended schedule addresses elements identified in this work plan.

<u>Activity</u>	<u>Calendar Days</u>
Work plan amendment submittal to ACDEH.....	Day 0
UST Fund Pre-approval Application submittal	Day 1
Request Offsite Access.....	Day 5
Obtain Offsite Access.....	Day 15
Set drill date with driller.....	Day 18
Permit application submittal to ACPWA.....	Day 20
Permit application approval by ACPWA.....	Day 26
UST Fund Pre-approval Application approval.....	Day 35
Well installation	Day 59
Well development.....	Day 62

March 5, 2007
Work Plan 0014.W10A

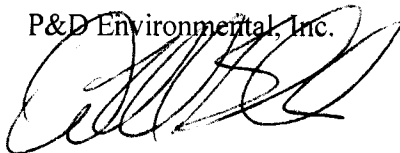
Well sample collection and surveying.....Day 66
Receipt of soil and groundwater sample results.....Day 76
Submittal of draft report to client for review.....Day 119
Submittal of final well installation report to ACDEH.....Day 133

In its April 4, 2007 letter, ACDEH requested submittal of the report documenting the activities proposed in the original work plan by May 15, 2007. Based on the above schedule of activities, P&D requests that the submittal date be extended to September 14, 2007.

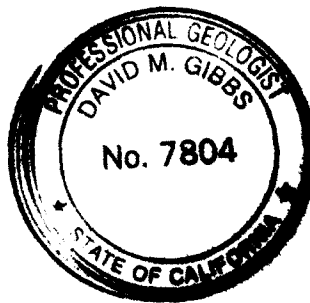
Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



David M. Gibbs, P.G.
Geosciences Department Manager
Professional Geologist #7804
Expires: 2/28/09



Attachments: Table 1
Site Location Map - Figure 1

cc: Mr. Keith Simas, Xtra Oil Company

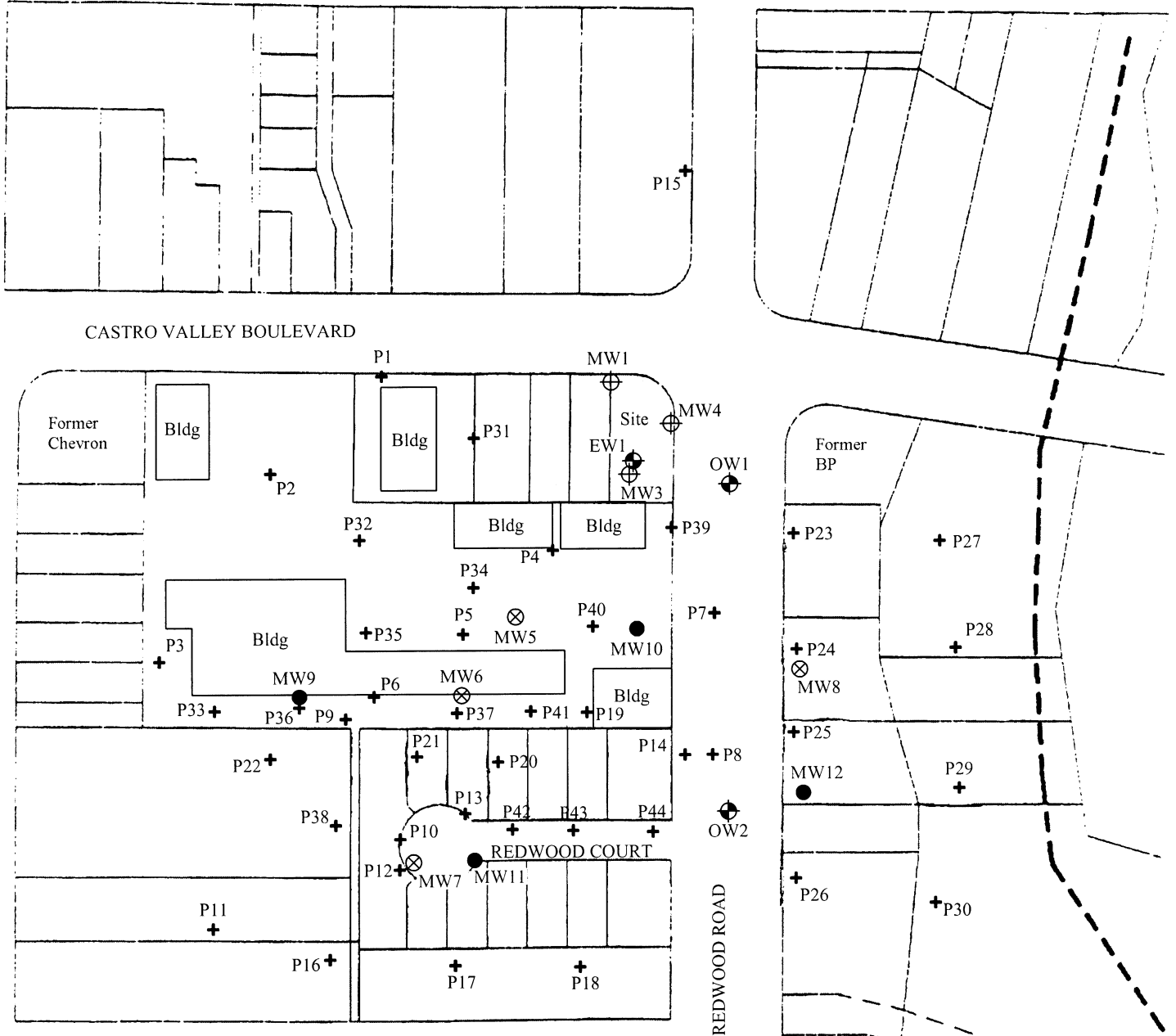
DMG/sjc
0014.W10

TABLE

Table 1. Proposed Well Depths									
Proposed Well	Nearby Drilling Location	Boring Total Depth (feet)	Depth to First Water (feet)	Static Depth to Water (feet)	Alt. Nearby Drilling Location	Boring Total Depth (feet)	Depth to First Water (feet)	Static Depth to Water (feet)	Recommended Total Well Depth (feet)
MW5	P34	21.0	21.0	8.1	P40	18.0	18.0	5.8	22.0
MW6	P37	15.0	7.0	7.0	P21	9.0	3.0	NR	10.0
MW7	P10	8.0	6.0	3.9	P12	6.5	4.8	4.0	10.0
MW8	P24	10.5	9.5	NR	P25	14.5	12.0	NR	15.0
MW9	P36	30.0	29.5	10.1	P33	20.0	19.5	7.6	22.0
MW10	P41	20.0	19.8	10.3	P37	15.0	7.0	7.0	22.0
MW11	P40	18.0	18.0	5.8	P19	11.0	10.0	9.8	15.0
MW12	P25	14.5	12.0	NR	P26	10.0	8.0	NR	13.0

Abbreviations and Notes:
NR = Not Recorded

SITE LOCATION MAP



Legend

- | | |
|---|--|
| <ul style="list-style-type: none"> OW2 Observation Well Location P44 Previous Investigation Groundwater Grab Sample Collection Location MW4 Existing Monitoring Well Location EW1 Existing EXtraction Well Location | <ul style="list-style-type: none"> MW8 Proposed Well Location For Plume Interior MW12 Proposed Well Location For Plume Perimeter --- Approximate Creek Location |
|---|--|

Figure 1
 Site Vicinity Map Showing Proposed Well Locations
 Xtra Oil Company
 3495 Castro Valley Boulevard
 Castro Valley, California



Base Map From:
 Castro Valley Sanitation
 District

P&D Environmental, Inc.
 55 Santa Clara Avenue, Suite 240
 Oakland, CA 94610

